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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,305	03/29/2004	Michael John Wray	200300134-2	8275

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EXAMINER

WANG, HARRIS C

ART UNIT	PAPER NUMBER
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2139

NOTIFICATION DATE	DELIVERY MODE
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08/11/2008

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 10/811,305	Applicant(s) WRAY ET AL.	
	Examiner HARRIS C. WANG	Art Unit 2139	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 March 0208.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

In view of the Appeal Brief filed on 3/06/2008, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,

(2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

/Kristine Kincaid/

Supervisory Patent Examiner, Art Unit 2139

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2, 10-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Griffin.

Regarding Claim 1, 12

Griffin (US 20020194496) teaches a system comprising a trusted computing platform including:

at least one first logically protected computing compartment associated with initialization of said system and

at least one second logically protected computing compartment, second logically computing compartment being associated with at least one service or process supported by said system, (*"Each resource of the computing platform which it is desired to protect is given a label indicating the compartment to which that resource belongs. Mandatory access controls are performed by the kernel of the host operating system to ensure that resources from one compartment cannot interfere with resources from another compartment."*)

Paragraph [0034])

wherein the system is arranged to load onto said trusted computing platform a predetermined security policy including at least one security rule for controlling the

operation of each of said logically protected computing compartments ("The actions or privileges within a component are constrained, particularly to restrict the ability of a process to execute methods and operations which have effect outside the compartment" Paragraph [0031]) The Examiner interprets the at least one security rule as each of the methods of each compartments are restricted within itself.;

wherein the security rule relating to the at least one first logically protected computing compartment is arranged to be loaded onto said trusted computing platform when the system is initialized (*"the trusted device performs a secure boot process when the computing platform is reset to ensure that the host operating system of the platform is running properly and in a secure manner"* Paragraph [0025]) and

wherein the at least one security rule relating to the at least one second logically protected computing compartment is only arranged to be loaded onto said trusted computing platform if one or more services or processes associated therewith are enabled (*"access control checks are performed such as through the use of hooks to a dynamically loaded security module that consults a table of rules indicating which compartments are allowed access the resources of another compartment. In the absence of a rule explicitly allowing a cross compartment access to take place, an access attempt is denied by the kernel"* Paragraph [0036])(*"Multiple applications can be run on the guest operating system, each within a separate compartment of the guest operating system. This embodiment enables each computing environment to be subdivided"* Paragraph[0068])

Regarding Claim 2,

Griffin teaches a system according to claim 1, wherein one or more common variable is defined for each compartment, wherein a relevant security rule is only arranged to be added if the variable associated with a particular compartment is enabled (*"Each resource of the computing platform which it is desired to protect is given a label indicating the compartment to which that resource belongs. Mandatory access controls are performed by the kernel of the host operating system to ensure that resources from one compartment cannot interfere with resources from another compartment. Access controls can follow relatively simple rules, such as requiring an exact match of the label"* Paragraph [0034])

Regarding Claim 10,

Griffin teaches a system according to claim 1, wherein the at least one compartment includes an operating system arranged to be controlled by the operating system kernel(*"the compartment is an operating system compartment controlled by a kernel of the host operating system"* Paragraph[0032] of Griffin)

Regarding Claim 11,

Griffin teaches the system according to claim 1, including means for determining when a service is starting, and on being enabled, for loading the compartment associated with that service and loading the security rules associated with that service (*"access control checks are performed such as through the use of hooks to a dynamically loaded security module that consults a table of rules indicating which compartments are allowed access the*

resources of another compartment. In the absence of a rule explicitly allowing a cross compartment access to take place, an access attempt is denied by the kernel" Paragraph [0036]) The Examiner interprets an access attempt for the service as "a service starting."

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Griffin in view of Wiseman.

Regarding Claim 3,

Griffin teaches the system according to claim 2. Griffin does not explicitly teach wherein at least one variable associated with a directory of plug-ins is arranged to be added wherein the system is arranged to determine, in response to a compartment being enabled, a status of said at least one variable and cause a relevant plug-in based upon a directory of plug-ins to run only if an associated variable is 'true'

Wiseman (20040003288) teaches at least one variable associated with plug-ins is arranged to be added wherein the system is arranged to determine in response to a

compartment being enabled (*The Main Platform Initialization Code performs necessary functions to complete the initialization of the platform. Such functions may include initializing devices embedded within the platform, and locating and initializing optional plug-in or embedded adapters (having their own device initialization code). After this, the Main Platform Initialization Code locates the OS Loader and executes it. The OS Loader, in turn, loads the OS into memory and begins executing the OS. At this point, the platform is considered in the OS-present state and is fully under control of the loaded OS*)

. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Griffin to accept plugins during initialization as taught by Wiseman.

The motivation is to extend the capabilities of the services.

Regarding claim 5,

Griffin and Wiseman teach a system according to claim 4, wherein the at least one compartment includes an operating system compartment arranged to be controlled by the operating system kernel (*"the compartment is an operating system compartment controlled by a kernel of the host operating system"* Paragraph[0032] of Griffin)

Regarding Claim 6,

Griffin and Wiseman teach a system according to claim 5, wherein the at least one compartment and network resources are arranged so communication between them is provided via relatively narrow kernel level controlled interfaces to a transport

mechanism (*"Communication between compartments is provided using narrow kernel level controlled interfaces to a transport mechanism such as TCP/UDP"* Paragraph[0036] of Griffin)

Regarding Claim 7,

Griffin and Wiseman teach a system according to claim 6, wherein said communication is governed by rules specified on a compartment by compartment basis (*"Access to these communication interfaces is governed by rules specified on a compartment by compartment basis"* Paragraph [0036]) of Griffin)

Regarding Claims 8-9,

Griffin and Wiseman teach a system according to claim 7, including means for determining when a service is starting, and on being enabled, for loading the compartment associated with that service and loading the at least one security rule associated with that service (*"access control checks are performed such as through the use of hooks to a dynamically loaded security module that consults a table of rules indicating which compartments are allowed access the resources of another compartment. In the absence of a rule explicitly allowing a cross compartment access to take place, an access attempt is denied by the kernel"* Paragraph [0036]) The Examiner interprets an access attempt for the service as "a service starting."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HARRIS C. WANG whose telephone number is (571)270-1462. The examiner can normally be reached on M-F 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, KRISTINE KINCAID can be reached on (571) 272-4063. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HCW

/Kristine Kincaid/
Supervisory Patent Examiner, Art Unit 2139